



Date: 01.01.2016

Ananthapuramu Ultra Mega Solar Power Project (1000 MW)
N P Kunta Ananthapuramu Dist. (AP)
Phase-1 : 250 MW (5 X 50 MW)

Progress Report: As on 01.01.2016

A. Project Synopsis:

Location	NP Kunta village and Mandal, Ananthapuramu district, AP
Nearest Railhead / Airport	Kadiri Railway Station (30 Km) / Bangalore International Airport (220 Km)
Approved Capacity	250 MW phase I (Five Blocks of 50 MW)P1,P2,P3,P4,P5
Investment approval	28.04.2015
Beneficiary / Status of PPA	Andhra Pradesh. PPA Signed with AP Southern Power Distribution Company on 24.04.2015.
Power Evacuation System	33 kV voltage level from each block of 50 MW upto APTRANSCO's pooling substation & at 220 / 400 KV beyond that point.
INPUTS:	
Land Requirement	1250 Acres land has been handed over to NTPC.
EPC Contract award	NOA issued on 29.04.15 to the following bidders: <input type="checkbox"/> P1 & P2 Block (2x50MW=100 MW) : M/s Tata <input type="checkbox"/> P3 Block (50 MW) : M/s Lanco <input type="checkbox"/> P3 Block (50 MW): M/s BHEL <input type="checkbox"/> P4 Block (50 MW): M/s Sterling &Wilson
Commissioning Schedule	<input type="checkbox"/> P2 to P5 blocks ----Apr 2016 <input type="checkbox"/> P1 block -----Oct 2016



B. Highlights:

- a) PV module erection is in progress in P-2 to P-5 blocks.
- b) Inverters for P2, P4 & P5 blocks received at site.
- c) HT switchgears (33 KV) for P-3 block received at site.
- d) HT cabling works started in P-2 block.
- e) CMCS building roof casting in P-3, P-4 & P-5 blocks done during the month.

C. Work Progress:

Sl. No.	Activity	P2 (Tata)	P3 (Lanco)	P4 (BHEL)	P5 (Sterling & Wilson)	P1 (Tata)
1	MMS Foundation casting (Nos.)	30216/ 33408	19231 / 33336	22807 / 33572	24901 / 33264	7276/33228
2	MMS tables	3904/8353	1829 / 8334	1095 / 8393	3290/8316	-/ 8353
3	Module erection(Tables)	1622 / 8353	1238 / 8334	1095 / 8393	320 / 8316	-/ 8353
4	CMCS building	Reached lintel level. Internal cable trench nearing completion	External plastering almost over. Internal cable trench nearing completion	Roof slab cast. Inside cable trench work started.	Roof slab cast. Internal cable trenches completed.	Plinth beam work in progress.
5	PEB building (Inverter room)	Foundation ready in 4 sub-blocks.	Foundation ready in 2 sub-blocks. 3 more nearing completion.	Columns upto plinth, with J-bolts completed in 6 blocks.	PEB structures erected in 6 blocks.	Drawing received.
6	Modules received (MW)	26.29	18.73	26.0	24.4	



D. Constraints / Road blocks:

1. 33 KV cable support structures (APSPCL):

33 KV cable support structures along the canal side fence (P1 to P5 blocks) has to be made ready on priority. Cables are expected to reach site by mid January 2016 and accordingly, erection front has to be made available.

2. Readiness of Substations:

Readiness of 33 / 220 KV substation of APTRANSCO and 400 KV switchyard of Power Grid and associated transmission system may be ensured two to three months before the plant commissioning for providing startup power and to evacuate the power from PV plant.

3. Approval of ABT meters:

Make / model of ABT meters needs to be finalized in consultation with APSPCL / APTRANSCO. Early resolution will help in the procurement of the ABT meters.



4. Bridges across the HNSS canal:

Bridges across the HNSS canal may be made ready on priority, since Ph-2 EPC contracts are now expected to be awarded by January 2016. Techno-commercial bids were opened on 26.11.2015.

5. 11 KV line in Ph-2 area needs to be dismantled before handing over the land to NTPC.
6. Communication facility is required for Phase-1, as the site activities are affected by poor connectivity / communication.
7. Main road from Kadiri to N P Kunata got damaged at several places during the recent rain. Temporary repair work is being carried out in single lane road.

E. Progress Photos :

Photos are annexed to this report.

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Progress Photos

(Annexure to Progress Report dtd. 01.01.2016)



Figure-1: PV module & MMS structure erection in P-2 block (M/s Tata) as on 31.12.2015



Figure-2: 33 KV cabling between sub-block 23 & 24 in P-2 block (M/s Tata) as on 29.12.2015



Figure-3: CMCS building in P-3 block (M/s Lanco) as on 27.12.2015



Figure-4: Plant internal road in P-3 block (M/s Lanco) as on 31.12.2015



Figure-5: String Monitoring Unit (SMU) erected in P-4 block (M/s BHEL) on 24.12.2015



Figure-6: Inverters (M/s Hitachi make) received in P-4 block (M/s BHEL) on 31.12.2015



Figure-7: CMCS building of P-5 block (M/s Sterling & Wilson) as on 31.12.2015



Figure-8: Pre-Engineered Building (PEB) structure in P-5 block (M/s Sterling & Wilson) as on 21.12.2015



**Figure-9: 33 KV cable support pedestal work along the block fence
in P-4 block by APSPCL as on 30.12.2015**